AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

Claims 1-19 (cancelled)

A three dimensional sensor device Claim 20 (Currently Amended): incorporated into a seam of a primary container, comprising:

a biosensor comprising a receptor bound on a solid substrate;

a sensor compartment having an interior and an exterior, and enclosing the biosensor, said the-sensor compartment-further having a surface allowing external viewing of the biosensor; and

a separation barrier forming at least a portion of the sensor compartment, separating the separation barrier being selected from the group consisting of a fibril membrane, a microporous membrane and a capillary-pore membrane, the separation barrier having at least one pore allowing fluid communication between the interior from the and exterior of the sensor compartment; and

at least one gated pore contained within the separation barrier allowing fluid communication between the interior and exterior of the sensor compartment, with the gated pore being initially closed by a functional occlusion material.

Claim 21 (Previously Presented): The sensor device of claim 20, wherein the separation barrier separates the interior of the sensor compartment from a primary container.

Claim 22 (Previously Presented): The sensor device of claim 20, wherein the at least one pore is occluded with a responsive material.

Claim 23 (Currently Amended): The sensor device of claim 20 22, wherein the

functional occlusion responsive material is selected from the group consisting of cellulosics,

non-cellulosic non-protein polymers, protein polymers, lipid bilayers, and lipid-containing

composites.

Claim 24 (Currently Amended): The sensor device of claim 20 22, wherein the

functional occlusion responsive material exhibits a response selected from the group

consisting of eroding, dissolving, and changing three-dimensional form.

Claim 25 (Currently Amended): The sensor device of claim 24, wherein the

response results from a change selected from the group consisting of a change in solvent

concentration, a change in pH, a change in temperature, bacterial action, endotoxin action,

and enzymatic action, and contact with water.

Claim 26 (Previously Presented): The sensor device of claim 20, wherein the

surface allowing external viewing permits optical sensing of the biosensor.

Claim 27 (Previously Presented): The sensor device of claim 20, wherein the

sensor compartment has walls comprised of an opaque material.

Claim 28 (Cancelled)

Claim 29 (Currently Amended): The sensor device of claim 20, wherein the

biosensor is comprised of:

a solid substrate; and

further comprises a bioactive detector molecule and signal material.

Claim 30 (Previously Presented): The sensor device of claim 29, wherein the

bioactive detector molecule and signal material are a fluorescent receptor complex.

Claim 31 (Previously Presented): The sensor device of claim 29, wherein the

bioactive detector molecule and signal material are a fluorochrome-receptor complex.

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Claim 32 (Previously Presented): The sensor device of claim 29, wherein the

bioactive detector molecule and signal material are a combination of a first fluorescent

receptor and a second fluorescent receptor, the second receptor emitting detectable light of a

unique wavelength on excitation by fluorescent resonance transfer by the first fluorescent

receptor.

Claim 33 (Previously Presented): The sensor device of claim 29, wherein the

bioactive detector molecule and signal material are a combination of a first receptor and a

second receptor, the first receptor binding a cell and the second receptor undergoing a

detectable spectral change in response to material released by the cell bound to the first

receptor.

Claim 34 (Previously Presented): The sensor device of claim 29, wherein the

bioactive detector molecule and signal material are a combination of two inhibited

fluorescent groups linked by an enzymatic cleavage site, and wherein enzymatic action

cleaves the enzymatic cleavage site and releases the fluorescent inhibition.

Claim 35 (Previously Presented): The sensor device of claim 29, wherein the

bioactive detector molecule and signal material are a combination of a first receptor and a

second receptor, the first receptor binding a cell capable of releasing an enzyme and the

second receptor being an inhibited fluorescent group wherein the enzyme releases the

fluorescent inhibition.

Claim 36 (Previously Presented): The sensor device of claim 21, wherein the

primary container is closed for analysis.

Claim 37 (Previously Presented): The sensor device of claim 20, wherein the

device is capable of aseptic operation.

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Claim 38 (Previously Presented): The sensor device of claim 20, wherein the external sensing is remote sensing.